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Villelongue, A. de and Legare, R.
SOCOTEL S1 SUB EXCHANGES AND CONCENTRA-
TORS. [1963] [41p] 4refs
Order from SLA \$4.60

TT-64-14000

Trans. of Commutation et Electronique (France) 1962,
no. 3, p. 20-35. (Abstract available)

DESCRIPTORS: *Telephone equipment, *Commutators,
Automation, Circuits, *Communication equipment,
*Synchros, Design,

The authors here discuss SOCOTEL S1 sub exchanges
and concentrators. After reviewing the general
principles which led to their inception, they present the
connection diagrams and describe the equipment; they
also indicate the principles of establishing and discon-
necting calls as well as the operation of the auxiliary
link and end with comments on methods of supplying
power. In conclusion, the results obtained to date and
the fabrication methods are briefly reviewed. (Author)

TT-64-14000

- I. Title: Socotel electronic
equipment
- I. Villelongue, A. de
- II. Legare, R.

(Engineering--Electronic,
TT, v. 11, no. 11)
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Saget, L. le and Demartres, J.
TELEGRAPH SATELLITES. [1963] 18p
Order from SLA \$1.60

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Trans. of Commutation et Electronique (France) 1962,
no. 3, p. 36-43.

DESCRIPTORS: *Telegraph systems, Telegraph equip-
ment, Networks.

Owing to the present structure of the French automatic telegraph network, it is common to see large points of concentration of telex subscribers at relatively long distances from their automatic connecting switches. That is why the French Administration was prompted to recommend the use of a particular type of installation, the "telegraph satellite," which makes it possible to link up a hundred or several hundred telex subscribers and connect them to their automatic switching equipment over a reduced number of telegraph channels. (Research Methods--Communication Theory, TT, v. 10, no. 12) (over)

63-20640

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63-18482

Regnier, A.
CONCENTRATOR OF 200 SUBSCRIBER'S LINES USING
REED RELAYS AS CONNECTIONS. [1963] 22p.
Order from SLA \$2.60 63-18482

I. Regnier, A.

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DESCRIPTORS: *Telephone equipment, *Polarized
relays, Telephone communication systems, Coupling
circuits.

The concentrator described in this article assures the
link between 200 subscribers' lines and the exchange
through a group of 24 concentration lines. It is of the
"semi-electronic" type, i. e., it possesses a speech
network assuring metallic link between subscriber's
station and exchange and set in place by an electronic
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ID 2155471

Wehr - Portugal
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May 58

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Order from SLA \$2.60

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DESCRIPTORS: *Klystrons, Measurement, *Electrical
impedance, Broadband, *Coupling circuits.

(Engineering--Electronic, TT, v. 10, no. 2)

I. Lakits, E.

Office of Technical Services

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WITH A VULCANIZABLE RESIN: ITS THERMAL
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15 Dec 66, on 21 Dec 66, 104-6, 104-6, 104-6, 27
Supersedes 104-6, 104-6, 104-6, 27
Order from 104-6, 104-6, 104-6, 27

Trans. of a rept. from Compagnie Générale de
Télégraphie sans Fil, Paris (France) n.d.

DESCRIPTORS: *Uranium compounds, *Oxides,
*Sintering, Thermal conductivity, Density, Spectro-
graphic analysis, Harman, Microanalysis, Fuel
elements, Powder metallurgy.

See also EURATOM

(Nuclear Physics-Nuclear Engineering, 11, v. 9, no. 3)

- I. TID 32-381 superseded
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Simon, J. C.
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Order from SLA \$1.60

63-10745

Trans. from Compagnie Générale de Télégraphie
sans Fil, Paris (France). Internal Repr-CSF/CRT,
1955.

DESCRIPTORS: Antennas, *Omnidirectional antennas,
Construction, Tests.

(Engineering--Electronic, TT, v. 10, no. 1)

Office of Technical Services

63-15640

[IMPROVING THE] SINTERING OF URANIUM
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tract 004-60-3 RDF. [1962] 13p. 16 refs. Supersedes
TID-12479.

Order from OTS or SLA \$1.60

EURAE-5

Trans. of a rept. from Compagnie Générale de Télé-
graphie sans Fil, Paris (France) 29 June 60.

DESCRIPTORS: *Uranium compounds, *Oxides,
*Sintering, *Thermal conductivity, Pellets, Alkaline
earths, Physical properties, Chemical properties,
Measurement, Reactor fuels.

Contents:

Properties of adjuvant oxides
Properties of uranium oxide and its sintering, using
(Nuclear Physics--Nuclear Engineering, TT, v. 9,
no. 12) (over)

- I. TID-12 479 superseded
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- III. EURATOM (Belgium)

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Sci - Electron

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Vibrating Rods Driving on Their Characteristic
Impedance, by P. Tournois, S. Loewenthal, 32 pp.

FRENCH, Document #1861.R.S., C.S.F./D.P.A.
PT-SL/DC, 3rd 7 April 1961. Prepared by the
~~Dept. de Physique Appliquée, Compagnie Générale~~
~~de Télégraphie Sans Fil, Paris, France.~~

Navy Tr 3198/MRL 895

Sci - Engr

211, 283

Sep 62

Study of a Cascade Image Intensifier Tube,
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Sand Fil, Paris, 1962, 3 pp.
ERDL, Ft Belvoir T-1713
(AD - 434878)

Sci - Electron
Oct 64

267,619

Study of a Cascade Image Intensifier Tube,
by S. Veron, D. Charles,
FRENCH, rpt, Compagnie Generale de Telegraphie
Sand Fil, Paris, 1962, 19 pp.
ERDL, Ft Belvoir T-1714
(AD - 424880)

Sci- Electron
Oct 64

267,620

Impedances of Beaming of Bands and Plates. Their
Acoustic Relation to the Medium of Propagation,
by S. Losenthal, P. Tournois, 28 pp.

FRENCH, Document #2108, R.S., C.S.F./D.P.A.,
SL/DC, dtd 19 Feb 1962. Prepared by Dept de
Physique Applique, Compagnie Generale de Telegraphie
Sans Fil, Paris, France.

Navy Tr 3200/NRL 897

Sci - Electron

Sep 62

211, 293

Value of a European Satellite for Television Broad-
casting, by G. Plottin.
FRENCH, rpt, Compagnie Generale de Telegraphie Sans
Fil, 25 Nov 1963, 23 pp.
NASA TT F-9138

Sci-Ear Sci & Astron
Dec 64
U.S. GOVERNMENT ONLY

269,984

63-15641

PRODUCTION OF BLENDED OXIDE PELLETS
(UO₂-ThO₂) BY SINTERING IN AIR. Quarterly rept.
3 on Contract EUR/C/1356/60/r. [1962] 32p.
Order from OTS or SLA \$3.50 EURAEC-115

I. EURAEC-115
II. EURATOM (Belgium)

Trans. of a rept. from Compagnie Industrielle des
Combustibles Atomiques Frites, Paris (France) n.d.

DESCRIPTORS: Production, *Oxides, Pellets,
*Sintering, *Uranium compounds, *Thorium compounds,
Air, Hydrogen, Thermal conductivity, Gases,
Furnaces, Reactor fuel rods.

The sintering in air of UO₃-ThO₂ mixtures as made it
possible to obtain blends with a density exceeding 98%
of the theoretical density. These results have been
obtained both on pellets shaped by pressing and on ex-
truded rods. Sintering U308-ThO₂ mixtures gives
definitely inferior results, both in air and in hydrogen.
(Nuclear Physics--Nuclear Engineering, TT, v. 9,
no. 12) (over)

Office of Technical Services

62-32157

PRODUCTION OF MIXED UO_2 - ThO_2 PELLETS
BY AIR SINTERING. Final rept. for 1 Sep 60-
1 Sep 61, on Contract EUR/C/1356/60/t(33).
23 Oct 61, 37p. 7 refs.
Order from OTS or SLA \$3.60

EURAEC-216

Trans. of rept. from Compagnie Industrielle des
Combustibles Atomiques Frittes, Paris (France).

DESCRIPTORS: *Uranium compounds, *Thorium
compounds, *Oxides, Production, *Sintering, Air,
Controlled atmospheres, Hydrogen, Tests, Pellets.

Sintering, both in air and in cracked ammonia, yields
high density (more than 96% of the theoretical value)
mixed uranium and thorium oxides. Sintering in air
at 1,600°C yields solid ThO_2 - UO_2 solutions. Sinter-
ing in hydrogen yields solid ThO_2 - UO_2 solutions.
The successful outcome of the sintering is conditioned
(Nuclear Physics--Nuclear Engineering, TF, v. 8,
no. 10)

(over)

- I. EURAEC-216
- II. EURATOM (Belgium)

Office of Technical Services

62-32025

URANIUM OXIDE EXTRUSION. Quarterly rept.
no. 5 (rept. no. 1) on proposal 37, Contract
EUR/3081/60 f. 15 Dec 60, 14p. Supersedes
TID-12175.

Order from OTS or SLA \$1. 60

EURAEC-52

Trans. of rept. from Compagnie Industrielle des Com-
bustibles Atomique Frittés, Paris (France).

DESCRIPTORS: *Fuel rods, *Uranium compounds,
Oxides, Extrusion, Additives, Sintering, Grains
(Metallurgy) Dies, Molding, Thermal stresses,
Moisture, Density

The object is to make cylindrical rods of uranium
oxide 15 to 20 mm in diam and 150 to 200 mm long.
The density must equal or exceed 95% of the theoreti-
cal (i. e., 10.4 g/cu cm) with dimensional tolerances
(Nuclear Physics--Nuclear Engineering, TT, v. 8,
no. 10) (over)

- I. EURAEC-52
- II. EURATOM (Belgium)
- III. TID-12175 superseded

Office of Technical Services

62-32038

URANIUM OXIDE EXTRUSION. Quarterly rept.
no. 2 on proposal 37, Contract EUR/C/1323/3/59 f.
15 Mar 60, 22p. Supersedes TID-12483.
Order from OTS or SLA \$2.60 EURAEC-13

Trans. of rept. from Compagnie Industrielle des
Combustibles Atomiques Frittes, Paris (France).

DESCRIPTORS: *Fuel rods, *Uranium compounds,
Oxides, *Extrusion, Plasticizers, Dies, Machining,
Sintering, Grains (Metallurgy)

Natural Uranium Oxide cylindrical revolution rods
were made, 16 to 18.5 mm in diameter, 180 to
260 mm long, 10 to 10.15 g/cm³ in density and 3/10
yield, by Rhodoviol extrusion of Uranium Oxide of
average specific surface (7 to 8 m²/g). The influence
of the type of bond, method of granulation, character-
(Nuclear Physics--Nuclear Engineering, TT, v. 8,
no. 10) (over)

- I. EURAEC-13
- II. EURATOM (Belgium)
- III. TID-12483 superseded

Office of Technical Services

62-33157

URANIUM OXIDE EXTRUSION. Quarterly rept. no. 3
(2d yr. quarterly rept. 7) Apr-June 61, 2nd Contract
030-60-9 RIDF]. [1962] 27p.
Order from OTS or SLA \$2.60 EURAEC-119

I. EURAEC-119
II. EURATOM (Belgium)

Trans. of a rept. from Compagnie Industrielle des
Combustibles Atomiques Frites, Paris (France) n. d.

DESCRIPTORS: Reactor fuel elements, *Reactor fuel
rods, *Uranium compounds, *Oxides, *Extrusion,
Powder metallurgy, Tests.

Extruded rods obtained, when using an uranium oxide
powder of low specific area (2.7 sq. m per g), had a
density of 10.40 to 10.45 g per c.c., which is more
than 95% of the theoretical density. These cylindrical
rods having a ratio of $\frac{l}{d} = 10$ (10 to 15 mm diameter and
100 to 150 mm long rods) have been obtained by uranium
(Nuclear Physics--Nuclear Engineering, TT, v. 9,
no. 5) (over)

Office of Technical Services

62-32044

PRODUCTION OF MIXED $\text{UO}_2\text{-ThO}_2$ OXIDE PELLETS BY SINTERING IN AIR. Quarterly rept. no. 2 on Contract EUR/C/1356/60/f. [1962] 25p. Order from CTS or SLA \$2.60

EURAE-58

- I. EURAE-58
- II. EURATOM (Belgium)

Trans of a rept. from Compagnie Industrielle des Combustibles Atomiques Frites, Paris (France) n.d.

DESCRIPTORS: Reactor fuel rods, *Uranium compounds, *Thorium compounds, *Oxides, Pellets, Production, *Sintering, Extrusion, Air, Controlled atmospheres, Hydrogen, Tests, Additives.

A study was made of the influence of some additives on the sintering speed of thorium. Vanadium oxide proved to be superior to calcium oxide. Micrographic examination of pellets containing vanadium revealed the presence of a secondary phase which is not observed in the case of calcium oxide. Sintering in air of mixtures (Nuclear Physics--Nuclear Engineering, TT, v. 9, no. 5) (over)

Office of Technical Services

URANIUM OXIDE EXTRUSION. Quarterly rept.
no. 6 (rept. no. 2) for Jan-Mar 61, on proposal 37.
31 Mar 61, 22p.

Order from OTS or SLA \$2. 60

EURAEC-62

Trans. of rept. from Compagnie Industrielle des
Combustibles Atomiques Frites, Paris (France)

DESCRIPTORS: *Fuel rods, *Uranium compounds,
Oxides, Extrusion, *Tragacanth, Bonding, Additives,
Bentonite, Niobium compounds, Titanium compounds,
Sintering, Dies, Molding, Pressure, Moisture, Lubri-
cants, Thermal stresses, Conductivity

By using average specific surface uranium powder
(6 to 7 m²/g) we have obtained extruded rods of 10. 60
to 10. 65 g/cm³. density, or 96 to 97% of the theoreti-
cal density. These 10 to 15 mm. diameter and 100 to
150 mm. long cylindrical rods have been obtained by
(Nuclear Physics--Nuclear Engineering, TT, v. 8,
no. 10)
(over)

62-32160

- I. EURAEC-62
- II. EURATOM (Belgium)

NP-tr-905

Office of Technical Services

62-32328

URANIUM OXIDE EXTRUSION. Quarterly rept. no. 4 for June-Sep 61, on Contract EUR/3081/60/f. Nov 61, 15p.

Order from OTS or SLA \$1.60

EURAE-195

Trans. of rept. from Compagnie Industrielle des Combustibles Atomiques Frites, Paris (France).

DESCRIPTORS: *Fuel rods, *Uranium compounds, Oxides, *Extrusion, *Tragacanth, Bonding, Additives, Thermal stresses, Conductivity, Mechanical properties, Spectrographic analysis

The extruded rods obtained, when using an uranium oxide powder having a specific area of 8 sq m per g supplied by the C. E. A., had always a density of not less than 10.50 g per c. c. These values confirm the results obtained during the second quarter with a (Nuclear Physics--Nuclear Engineering, TT, v. 8, no. 10) (over)

- I. EURAE-195
- II. EURATOM (Belgium)

Office of Technical Services

Extrusion of Uranium Oxide, by R. Hauser,
J. Mercier.

FRENCH, rpt, Compagnie Industrielle des Combustibles
Atomiques Prites, Corbeville, par Orsay (Seine-et-
Oise), Jan 1961, 35 pp.

AEC/EP-Dr-905

Sci - Nucl. Sci

Apr 63

226,790

A New Telephonic Achievement Every Thirty-Five Days,
9 pp.
SPANISH, per, Compania de Telefonos de Chile, 1962,
ppp 3-5; 14-21. (Call No Uncataloged Eng Tr)

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LA - Chile
Econ
Feb 64

250,092

Comparison of U-Pu-100, U-Pu-100, U-Pu-11 and
U-Pu-12 alloys, by R. Boucher, Pierre Barthelemy.
FRENCH, rpt, Comparison des alliages U-Pu-100,
U-Pu-100, U-Pu-11, U-Pu-12. 1964.

Scl-Ghesa
Nov 64

Characteristic Reactions of the Wellkner Dyeing
ing Substances, by Prof F. Schmidt, 9 pp.

~~GERMAN~~
~~French~~, rpt, Compendium der Photographie.

CIA/TDD XX-689

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Sci - Chemistry

Oct 59

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